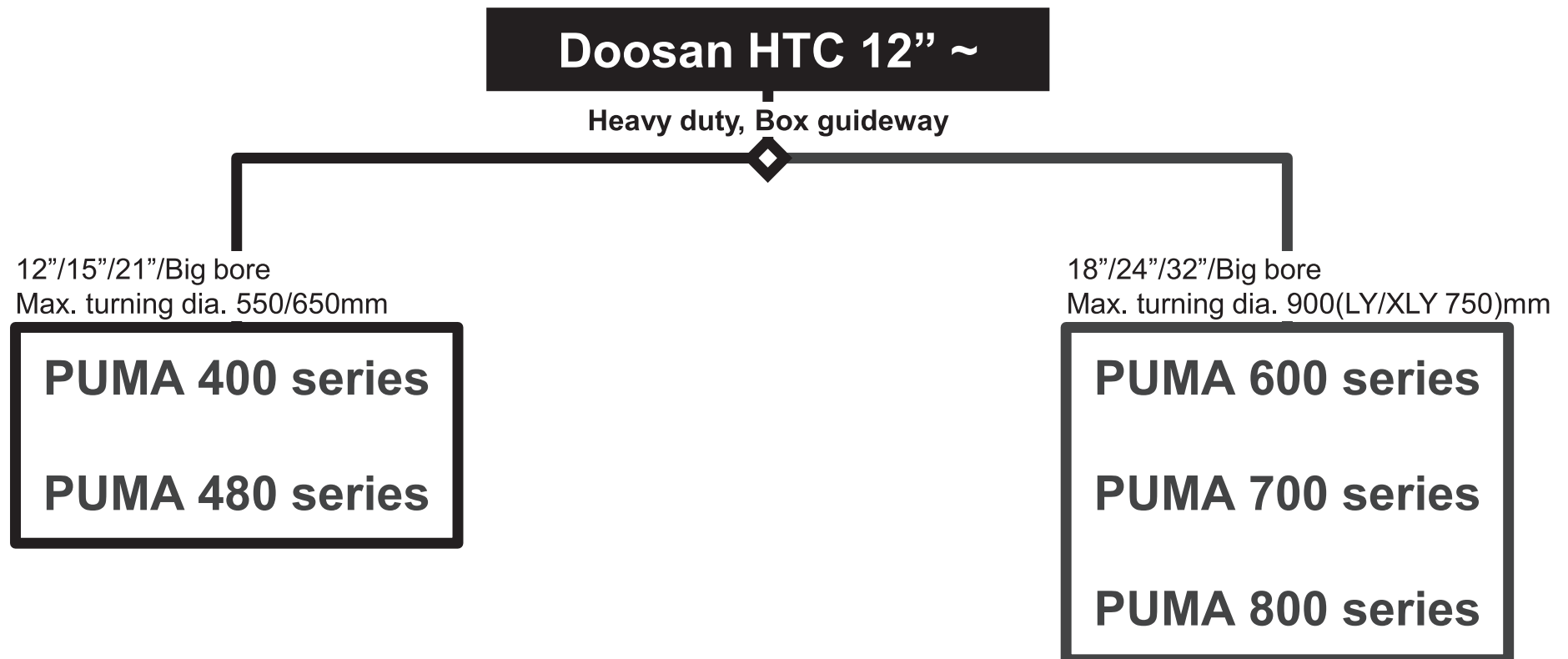
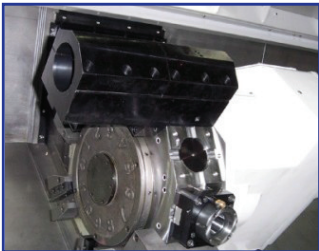
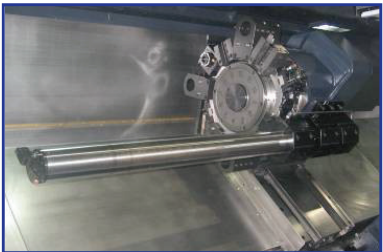
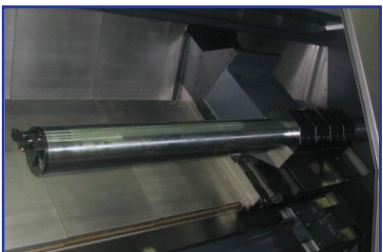
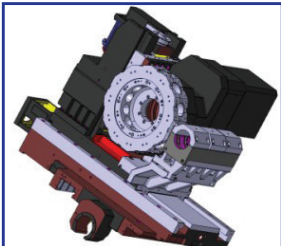


Medium and Large size HTC

PUMA 400~800 series are suitable for heavy duty machining.
Especially, PUMA 400~800 series provide various applications for Oil & Gas Industry customers.

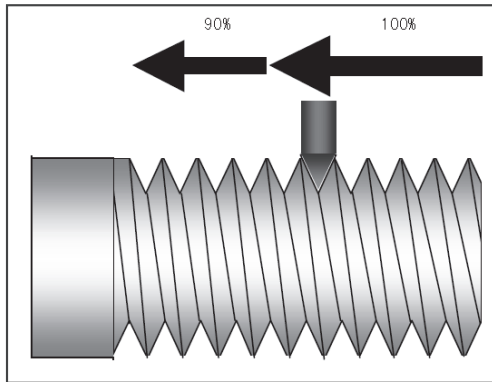


OIL & GAS _ LONG BORING BAR

TYPE	Reference Picture	Notice	Application Model
Bolted to Turret		<ul style="list-style-type: none"> • Tool holders can not be mounted on just next stations of long boring holder due to interference. • Limitation of max. tool weight. • Adjust the indexing time after assembly for smooth indexing. 	<ul style="list-style-type: none"> • D100 • Puma 600M / LM / XLM • Puma 700M / LM / XLM • Puma 800M / LM / XLM
Bolted to Turret & Tool-post Body		<ul style="list-style-type: none"> • Tool holders can not be mounted on just next stations of long boring holder due to interference. • Disassemble the front part mounted on Turret to use other tools. 	<ul style="list-style-type: none"> • D60 • Puma 400/M/L/LM/XL/XLM • D80 • Puma 400M/LM/XLM • Puma 480M/LM/XLM • D100 • Puma 400/M/L/LM/XL/XLM • Puma 480/M/L/LM/XL/XLM/D/LD • Puma 600(700,800)/L/XL • D120 • Puma 600(700,800)M/LM/XLM • D150 • Puma 600(700,800)/L/XL
Substitute for Tool post		<ul style="list-style-type: none"> • Long boring holder is used instead of tool post. • Standard tooling is not available 	<ul style="list-style-type: none"> • D200 • Puma 600/M/L/LM • Puma 700/M/L/LM • Puma 800/M/L/LM
Bolted to Turret & Cross slide		<ul style="list-style-type: none"> • Tool holders can not be mounted on just next stations of long boring holder due to interference. • Disassemble the whole long boring assembly to use other tools. 	<ul style="list-style-type: none"> • D120 • Puma 600LY/XLY • Puma 700LY/XLY • Puma 800LY/XLY

OIL & GAS _ THREAD FUNCTION

Arbitrary Speed Threading



0iTD

32i-A

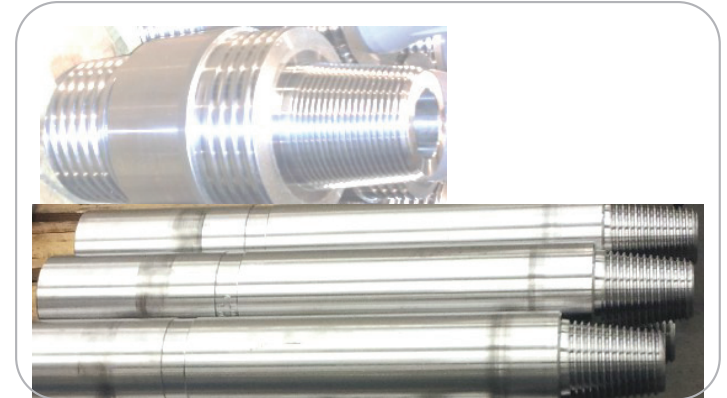
32i-B

31i-A

31i-B



also available function
to 2-axis Headstock with C-axis

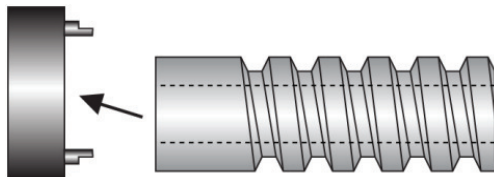


'Spindle speed override' when thread cutting

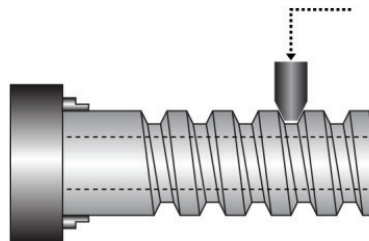
- Allowing the operator to adjust the spindle speed to **avoid chatter**
- CNC maintains **feed axis synchronization** to assure thread definition
- This function is useful restraining vibration & repeat machining that use various spindle speed

'Re-machining'

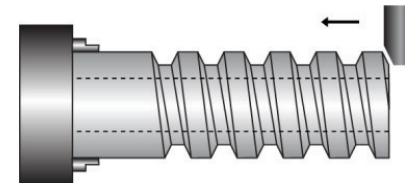
- Previously machined **threads can be easily repaired**



- Chucking the damaged part



- Manually positioning the tool into the machined thread with the spindle stopped
- Registering the position with the CNC the damaged part



- Retract the tool, start the spindle and run the part program to re-machine the thread

OIL & GAS _ THREAD FUNCTION

Efficient Thread Function

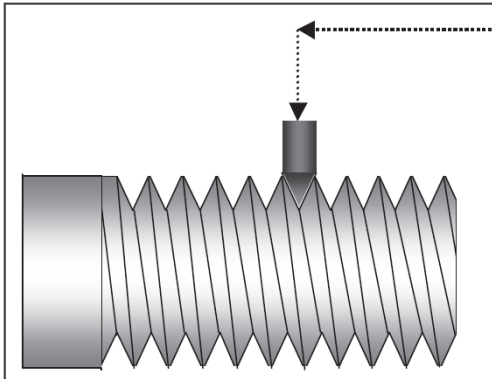
0iTD

32i-A

32i-B

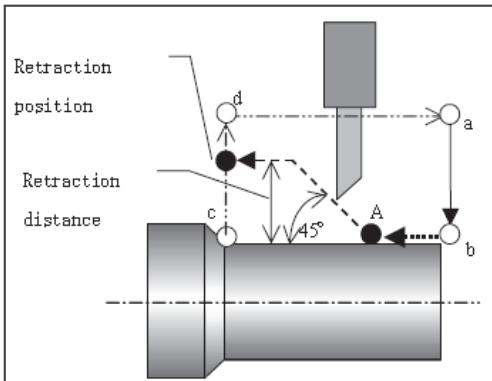
31i-A

31i-B



• Thread repair function

- When the work-piece remove from chuck with any reason during thread cutting, this function allow that restart machining from same groove of thread before.
- After chucking measure the position of thread groove, then start machining by same program.
- MANUAL GUIDE i support the part of this function, advanced function is included “Arbitrary speed threading”
- This function need Cs contouring function



• Tool retract and recover

- The tool can be retracted from a work-piece to replace the tool, if damaged during machining, or to check the status of machining. Then, the tool can be returned to restart machining efficiently.
- When the operator notice the crack of insert or any problem of machining, turn on the WITHDRAW switch on OP Panel . Then, the machining would be stopped & automatically move to tool changing position. After tool change, turn on the RECOVER switch that reactivate the program.

